

IN THE CLAIMS:

The following is a complete listing of the claims in this application, reflects all changes currently being made to the claims, and replaces all earlier versions and all earlier listings of the claims:

1.-21. (Canceled)

22. (Currently Amended) A communication system comprising:

a first apparatus in a wireless network;

a second apparatus in a wired network; and

a communication apparatus that is arranged to communicate with the first apparatus[,] and is arranged to communicate with the second apparatus,

wherein the communication apparatus includes a first communication unit, a decoding unit, an encoding unit, and a second communication unit,

wherein the first communication unit is adapted to receive first encoded video data encoded by a first video encoding system and transmitted from the first apparatus,

wherein the ~~encoding~~ decoding unit is adapted to decode the first encoded video data into video data,

wherein the encoding unit is adapted to encode the video data into second encoded video data using a second video encoding system, and

wherein the second communication unit is adapted to transmit the second encoded video data to the second apparatus.

23. (Currently Amended) A communication system according to claim 22, wherein

the first apparatus is a video camera, and

the second apparatus is an apparatus adapted to record the second encoded video data on a recording medium.

24. (Currently Amended) A communication system according to claim 22, wherein

the first apparatus is a video camera, and

the second apparatus is an apparatus adapted to display the second encoded video data.

25. (Currently Amended) A communication apparatus that is arranged to communicate with a first apparatus in a wireless network and is arranged to communicate with a second apparatus in a wired network, the communication apparatus comprising:

a first communication unit adapted to receive first encoded video data encoded by a first video encoding system and transmitted from the first apparatus;

a conversion unit adapted to convert the first encoded video data into second video data encoded by a second video encoding system;

a decoding unit[[,]] adapted to decode the first encoded video data into video data;

an encoding unit[[,]] adapted to encode the video data into the second encoded video data using the second video encoding system; and

a second communication unit adapted to transmit the second encoded video data to the second apparatus.

26. (Currently Amended) A communication apparatus according to claim 25, wherein

the first apparatus is a video camera, and

the second apparatus is an apparatus adapted to record the second encoded video data on a recording medium.

27. (Currently Amended) A communication apparatus according to claim 25, wherein

the first apparatus is a video camera, and

the second apparatus is an apparatus adapted to display the second encoded video data.

28. (Currently Amended) A communication method for a communication apparatus that is arranged to communicate with a first apparatus in a wireless network and is arranged to communicate with a second apparatus in a wired network, the communication method comprising the steps of:

receiving first encoded video data encoded by a first video encoding system and transmitted from the first apparatus;

decoding the first encoded video data into video data;

encoding the video data into second encoded video data using a second video encoding system; and

transmitting the second encoded video data to the second apparatus.

29. (Currently Amended) A communication method according to claim 28, wherein

the first apparatus is a video camera, and

the second apparatus is an apparatus adapted to record the second encoded video data on a recording medium.

30. (Currently Amended) A communication method according to claim 28, wherein

the first apparatus is a video camera, and

the second apparatus is an apparatus adapted to display the second encoded video data.

31. (Currently Amended) A communication system comprising:

- a first apparatus in a wireless network;
- a second apparatus in a wired network; and
- a communication apparatus that is arranged to communicate with the first apparatus and is arranged to communicate with the second apparatus,

wherein the communication apparatus includes a first communication unit, a decoding unit, an encoding unit, and a second communication unit,

wherein the second communication unit is adapted to receive second encoded video data encoded by a second video encoding system and transmitted from the second apparatus,

wherein the decoding unit is adapted to decode the second encoded video data into video data,

wherein the encoding unit is adapted to encode the video data into first encoded video data using a first video encoding system, and

wherein the first communication unit is adapted to transmit the first encoded video data to the first apparatus.

32. (Currently Amended) A communication system according to claim 31, wherein

the first apparatus is an apparatus adapted to record the first encoded video data apparatus on a recording medium, and

the second apparatus is an apparatus adapted to reproduce the second encoded video data from a recording medium.

33. (Currently Amended) A communication system according to claim 31, wherein

the first apparatus is an apparatus adapted to display the first encoded video data, and

the second apparatus is an apparatus adapted to reproduce the second encoded video data from a recording medium.

34. (Currently Amended) A communication apparatus that is arranged to communicate with a first apparatus in a wireless network and is arranged to communicate with a second apparatus in a wired network, the communication apparatus comprising:

a second communication unit adapted to receive second encoded video data encoded by a second video encoding system and transmitted from the second apparatus;

a decoding unit adapted to decode the second encoded video data into video data;

an encoding unit adapted to encode the video data into first encoded video data using a first video encoding system; and

a first communication unit adapted to transmit the first encoded video data to the first apparatus.

35. (Currently Amended) A communication apparatus according to claim 34, wherein

the first apparatus is an apparatus adapted to record the first encoded video data on a recording medium, and

the second apparatus is an apparatus adapted to reproduce the second encoded video data from a recording medium.

36. (Currently Amended) A communication apparatus according to claim 34, wherein

the first apparatus is an apparatus adapted to display the first encoded video data, and

the second apparatus is an apparatus adapted to reproduce the second encoded video data from a recording medium.

37. (Currently Amended) A communication method for a communication apparatus that is arranged to communicate with a first apparatus in a wireless network and is arranged to communicate with a second apparatus in a wired network, the communication method comprising the steps of:

receiving second encoded video data encoded by a second video encoding system and transmitted from the second apparatus;

decoding the second encoded video data into video data;

encoding the video data into first encoded video data using a first video encoding system; and

transmitting the first encoded video data to the first apparatus.

38. (Currently Amended) A communication method according to claim 37, wherein

the first apparatus is an apparatus adapted to record the first encoded video data on a recording medium, and

the second apparatus is an apparatus adapted to reproduce the second encoded video data from a recording medium.

39. (Currently Amended) A communication method according to claim 37, wherein

the first apparatus is an apparatus adapted to display the first encoded video data, and

the second apparatus is an apparatus adapted to reproduce the second encoded video data from a recording medium.